

**CHUKA UNIVERSITY**  
**Course outline**

**Bachelor of Management Science and Computer Science**

**COSC 472: STRATEGIC INFORMATION SYSTEMS (45/0; CF 3.0) Y<sub>4</sub>S<sub>1</sub> / Y<sub>4</sub>S<sub>2</sub>**

**(1) Course Description**

This course covers management of information systems. In our discussions we will focus on the following:

Information gathering; processing, analysis and design techniques; techniques for developing systems responsive to managerial needs; Computers and information management. Information storage and security; Information and planning; Control and operational functions; Business data processing systems, their capabilities, usage and limitations; Management of Internet technology. (***PREREQUISITE: BCOM 172 / COSC 100 and COSC 101***)

**(2) Course Objectives**

On successful completion of the course, the student should be able to:

- Understand the process of information gathering, processing, analysis, and design of data collection tools
- Outline techniques for developing computerised systems
- Demonstrate the ability to plan, operate, manage, store, secure, and control computer information
- Compare the data processing systems' usage, capabilities, and limitations
- Discuss ways of managing internet technology

**(3) Course Outline**

**Week 1 & 2:** Information gathering: processing, analysing and design techniques

**Week 3 & 4:** Techniques for developing systems responsive to managerial needs

**Week 5 & 6:** Computers and information management. Information storage and security

**Week 7 & 8:** Management of internet technology, control and operational functions

**Week 9 & 10:** Business data Processing systems, their capabilities usage and limitations;

**Week 11:** Ethical issues, Impacts of IT on organizations

**Week 12:** Strategic advantage of information technology in organizations

**Week 13:** CAT + Assignments' feedback

**Week 14 & 15:** Revision and Examinations

#### **(4) Methods of Teaching**

Lectures (3hrs weekly) and home assignments

#### **(5) Evaluation**

Evaluation will be based on:

- a) C.A.T and Assignments – 30 marks.
- b) Final Exam – 70 marks.

#### **(6) References**

- Laudon Kenneth & Laudon Janet. (2010). *Management information systems: Managing the digital firm. (12<sup>th</sup> Ed.)*. Upper Saddle River, NJ: Pearson Prentice Hall.
- Lucey Terence (2005), *Management information systems :( 9th Ed.)*. Zrinski: Croatia
- O'Brien, J (1999). *Management Information Systems – Managing Information Technology in the Internetworked Enterprise*, Boston: Irwin McGraw-Hill.
- Pant, S., Hsu, C., (1995), *Strategic Information Systems Planning: A Review*, Information Resources Management Association International Conference, May 21–24, Atlanta.
- Reddy P.C (2011), *Management information systems*. Katson Books publishers
- Online tutorials on some relevant topics to be covered

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